

Somatostatin-28

Cat.No. 366 004; Polyclonal Guinea pig antibody, 100 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µl antiserum, lyophilized. For reconstitution add 100 µl H ₂ O, then aliquot and store at -20°C until use.
Applications	WB: not tested yet IP: not tested yet ICC: 1 : 500 IHC: 1 : 500 IHC-P/FFPE: 1 : 500
Immunogen	Synthetic peptide corresponding to AA 89 to 100 from mouse Somatostatin (UniProt Id: P60041)
Reactivity	Reacts with: human (P61278), rat (P60042), mouse (P60041). Other species not tested yet.
Specificity	This antibody preferentially recognizes somatostatin-28. It only shows minor cross-reactivity to the unprocessed precursor protein and does not detect somatostatin-14.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Somatostatin, also referred to as **SST**, **growth hormone-inhibiting hormone** or **GHIH**, is a peptide hormone that regulates the endocrine system and affects neurotransmission and cell proliferation via interaction with G protein-coupled somatostatin receptors. It inhibits the secretion of many important hormones, including insulin, glucagon and somatotropin (also designated growth hormone, or GH). Somatostatin has two forms, active 14 amino acid and 28 amino acid. They are produced by alternative cleavage of the single precursor protein encoded by this gene.

Selected References SYSY Antibodies

Phase-specific surround suppression in mouse primary visual cortex correlates with figure detection behavior based on phase discontinuity.

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Neuroscience (2018) : . **IHC; tested species: mouse**

Supramammillary Nucleus Afferents to the Dentate Gyrus Co-release Glutamate and GABA and Potentiate Granule Cell Output.

Hashimoto-dani Y, Karube F, Yanagawa Y, Fujiyama F, Kano M

Cell reports (2018) 25(10): 2704-2715.e4. **IHC; tested species: mouse**

Selected General References

Somatostatin and its receptors from fish to mammals.

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The somatostatin-28(1-12)-NPAMAP sequence: an essential helical-promoting motif governing prosomatostatin processing at mono- and dibasic sites.

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Somatostatin antisense oligodeoxynucleotide-mediated stimulation of lymphocyte proliferation in culture.

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Endocrinology (1996) 137(5): 1585-90.

All five cloned human somatostatin receptors (hSSTR1-5) are functionally coupled to adenylyl cyclase.

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